
Connections

All cables, except cables to connectors C and D of carrier shelves, are terminated and designated as described in *Telephone and attendant console installation* (553-3001-215). Connector C and D cables are terminated as shown in [Tables 3 and 4](#).

Wiring to a QUA1 emergency transfer unit is cross-connected as shown in [Figure 13](#) and [Table 4](#).

Sets and consoles are cross-connected to PE shelves as described in *Telephone and attendant console installation* (553-3001-215).

Connections for 500-type telephones and trunks that connect through emergency transfer units are given in [Figure 13](#). A ring ground start button must be provided on these telephones if the trunks are ring ground start.

RPE local and remote carrier shelves are cross-connected to the digital carrier cable pairs as shown in [Figures 14 and 15](#).

RPE maintenance pairs are cross-connected as shown in [Figure 16](#).

Table 3
Cable C designations at local and remote locations

Network loop	Card position	Connector C pin number (Notes 1 and 2)	Lead color	Lead designation
X	9	1	BL-W	C1
X	9	26	W-BL	C2
X	9	2	O-W	C3
X	9	27	W-O	C4
Y	9	3	G-W	C9
Y	9	28	W-G	C10
Y	9	4	BR-W	C11
Y	9	29	W-BR	C12
	9	5	S-W	OWT
	9	30	W-S	OWR
	9	6	BL-R	FLT
	9	31	R-BL	FLR
	4	7	O-R	FLWA
	4	32	R-O	FLWB
	4	8	G-R	WFIT
	4	33	R-G	WFIR
		9 to 25		GND
		34 to 50		GND

Note 1: These leads are grounded in the carrier shelf when cable C is installed in jack C. They are cut off at the main distribution frame (MDF) when cable C goes directly to an MDF. Carrier problems are less likely to occur when the cables terminate directly on the MDF.

Note 2: When cable C goes to an intermediate cross-connect terminal (such as an SL-1 cross-connect terminal), it is terminated at that terminal and extended to the MDF. These leads are then cut off at the MDF.

Table 4
Cable D designations at local and remote locations

Network loop	Card position	Connector D pin number (Notes 1 and 2)	Lead color	Lead designation
X	9	1	BL-W	C5
X	9	26	W-BL	C6
X	9	2	O-W	C7
X	9	27	W-O	C8
Y	9	3	G-W	C13
Y	9	28	W-G	C14
Y	9	4	BR-W	C15
Y	9	29	W-BR	C16
	5	5	S-W	GND
	5	30	W-S	GND
	4	6	BL-R	PFX1
	4	31	R-BL	PFX2
	8	7	O-R	PFY1
	8	32	R-O	PFY2
	9	8	G-R	DCST
	9	33	R-G	DSCR
	9	9	BR-R	DETT
	9	34	B-BR	DETR
		10–25		
		35–50		

Note 1: These leads are grounded in the carrier shelf when cable D is installed in jack D. They are cut off at the main distribution frame (MDF) when cable D goes directly to an MDF.

Note 2: When cable D goes to an intermediate cross-connect terminal (such as an SL-1 cross-connect terminal), it is terminated at that terminal and extended to the MDF. These leads are then cut off at the MDF.

Figure 13
PFT intercabinet and console cross connections (QUA1 shown)

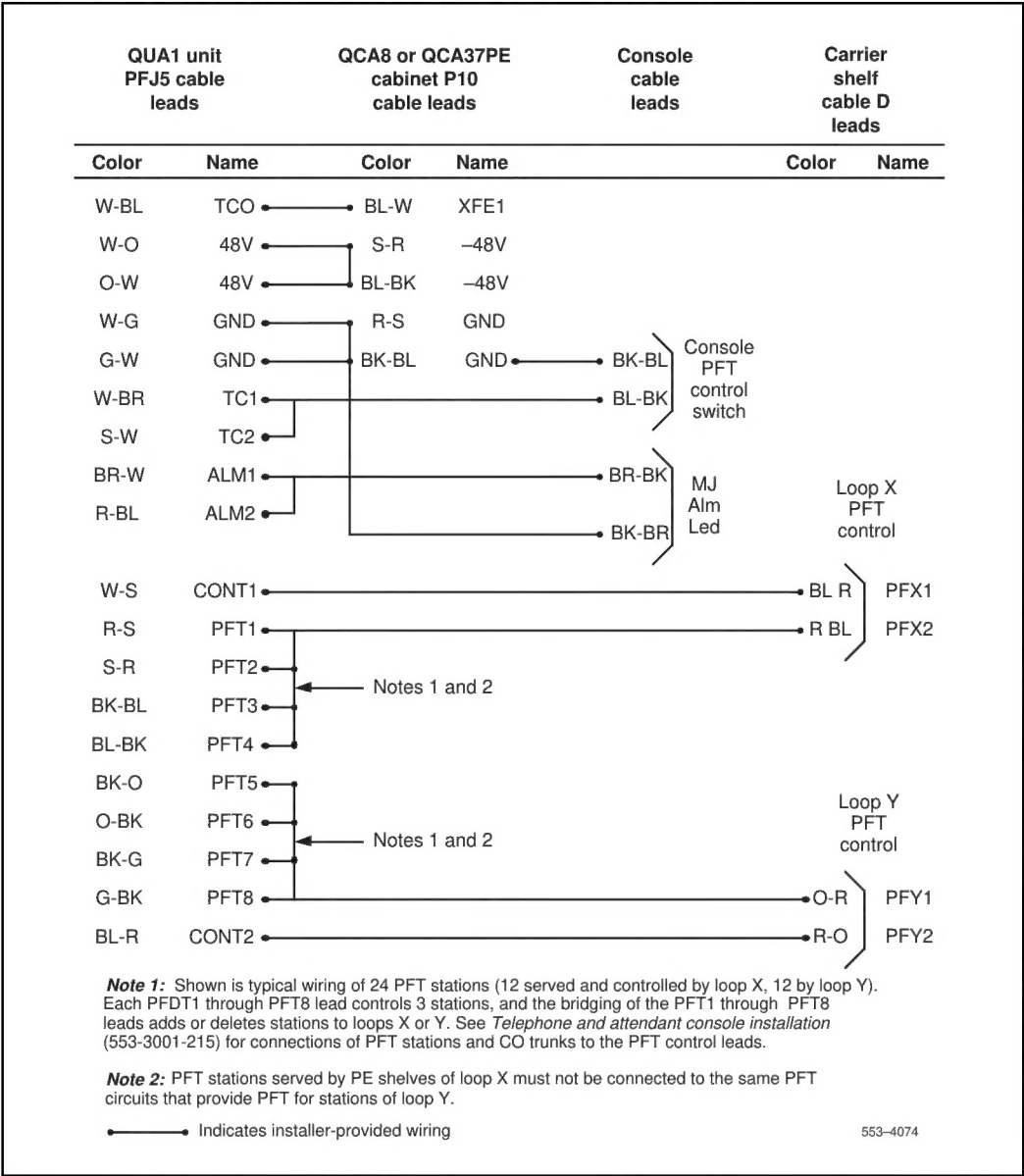


Figure 14
PFT RPE local to remote RPE cross connections

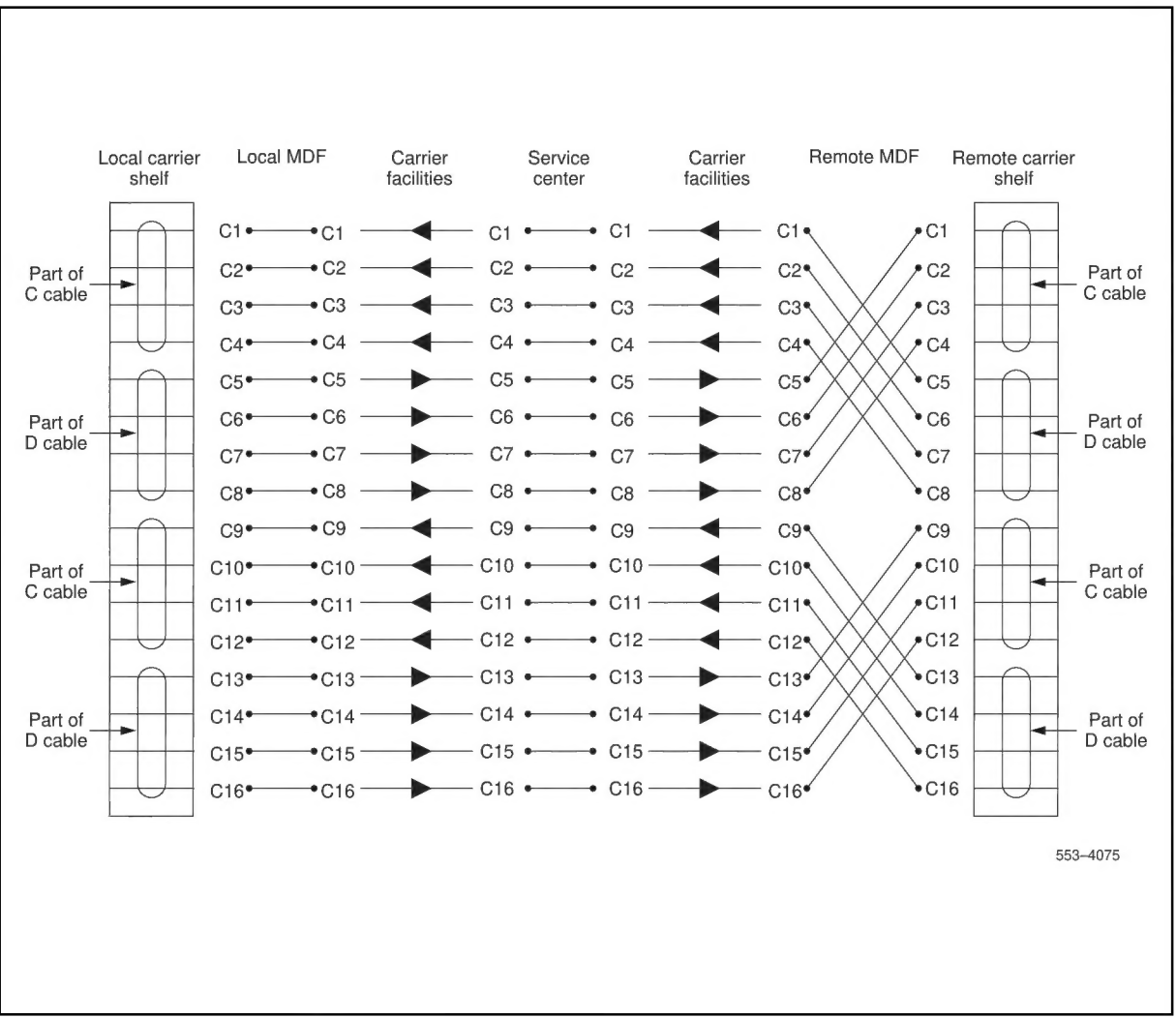


Figure 15
Detail of local and remote MDF cross connections

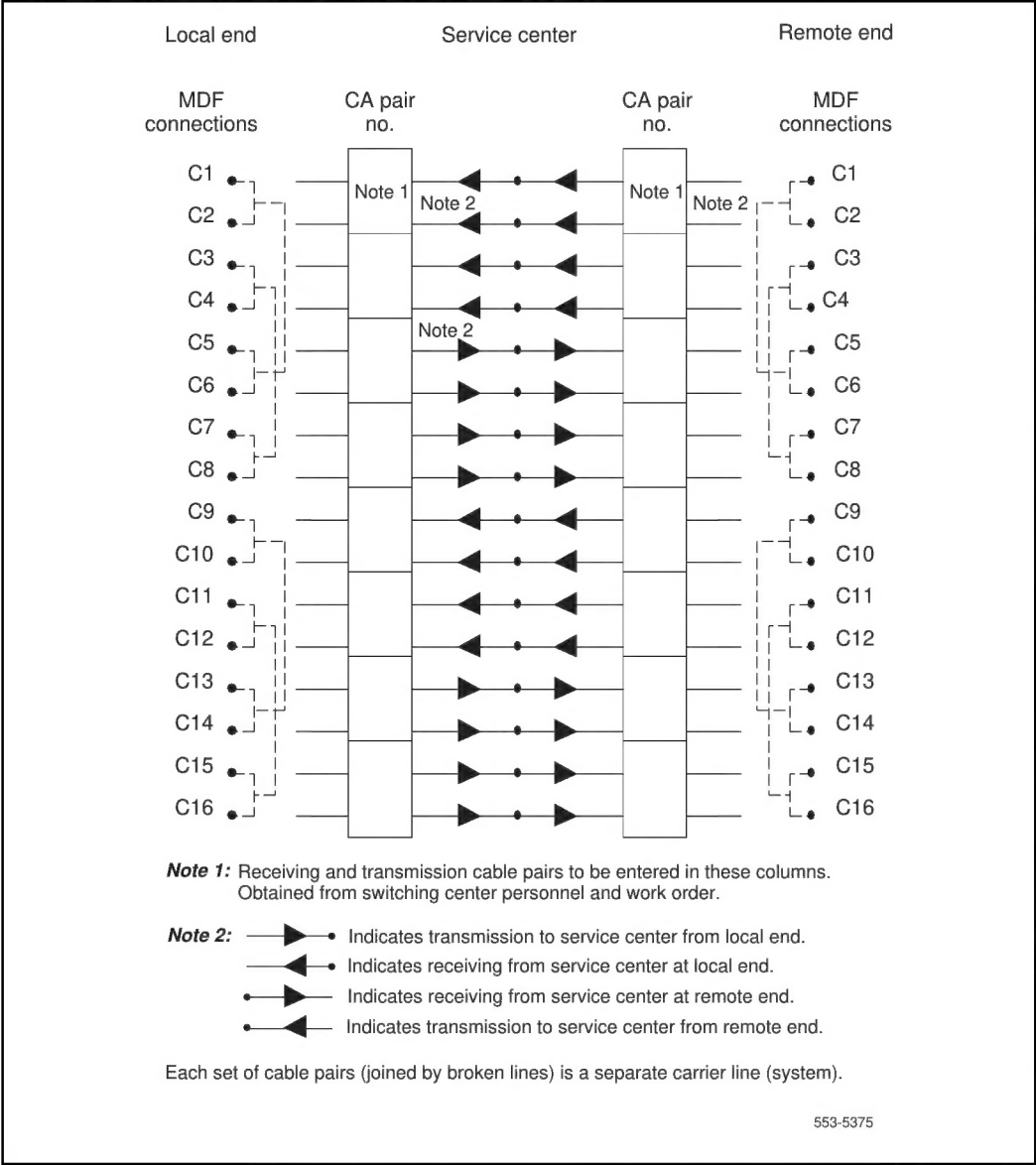


Figure 16
Maintenance lead cross connections (Part 1 of 2)

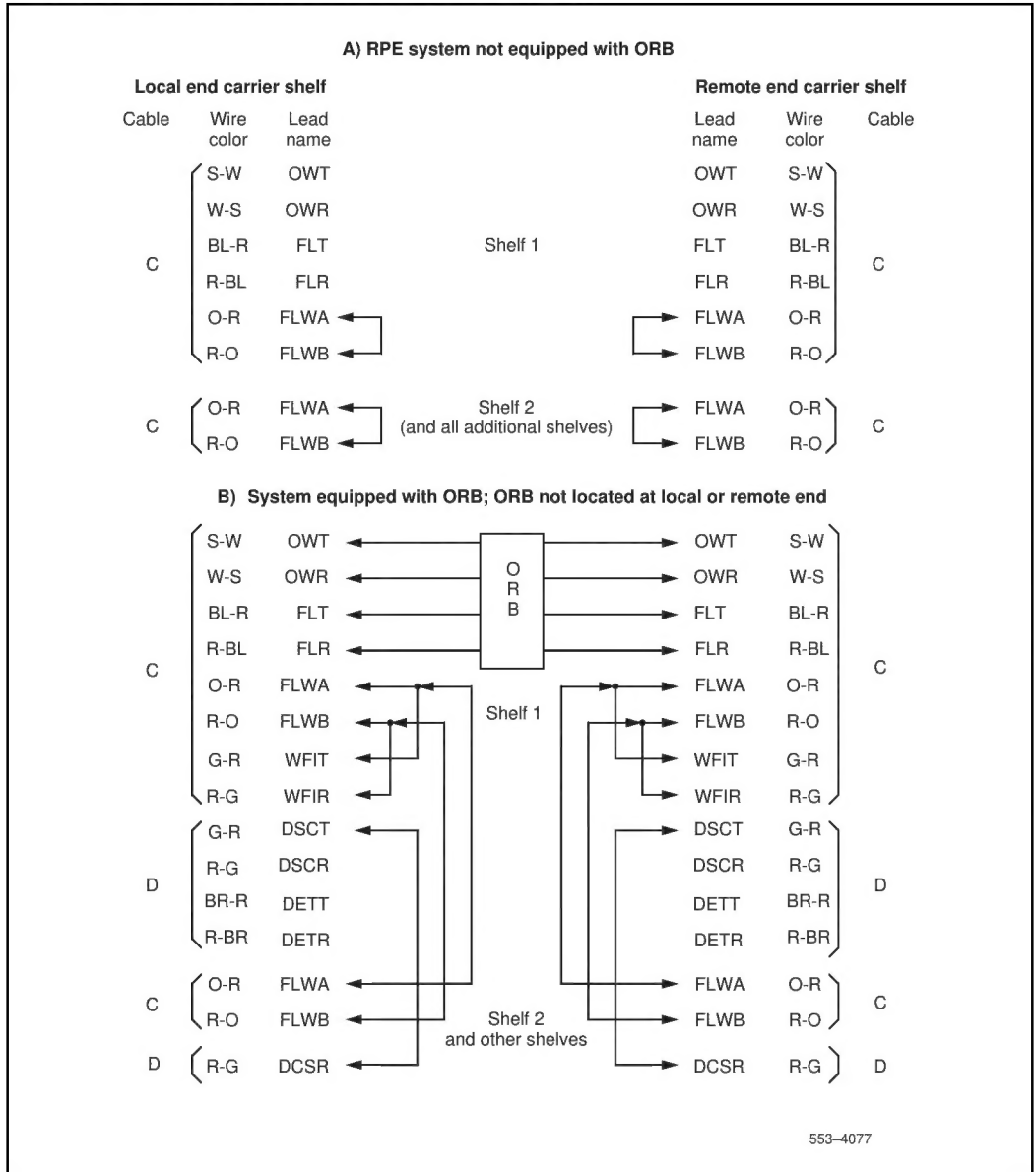


Figure 16
Maintenance lead cross connections (Part 2 of 2)

